AT Practical No 9 My fr Him: Implement Moive Bayes learning algority er the volument waiting problems int was Hloodin trong oldmans Tops Refer turchen total learning Algorithm enction 1get Probably In this get probably Define Main function In this and print resulted not of band booker to to Hart Hall

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#AIM: Implement Naive-Bayes learning algo for RWP(Restaurant Waiting Problem).

aip9.py - E:\fffiiles\college pracs and projects\Al\aip9.py (3.8.3)

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Ln: 4 Col: 29

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PANSYES = tot('ans', 'Y') / total_exp
PAnsNo = tot('ans', 'N') / total_exp
       print ('Probability for will wait if there is an Alternate Restaurant Nearby: ')
      print('Yes: Will Wait ', (getProbab('Alt', 'Y', 'Y') * PAnsYes/PAltYes) * 100, '%')
print('No: Will Wait ', (getProbab('Alt', 'Y', 'N') * PAnsNo/PAltYes) * 100, '%')
       print ('Probability for will wait if there No is an Alternate Restaurant Nearby: ')
      print('Yes: Will Wait ', (getProbab('Alt', 'N', 'Y') * PAnsYes/PAltNo) * 100,
print('No: Will Wait ', (getProbab('Alt', 'N', 'N') * PAnsNo/PAltNo) * 100, '%
       print('Probability for will wait if Estimated Wait time is 0-10 minutes: ')
      print('Yes: Will Wait ', (getProbab('Est', '0-10', 'Y') * PAnsYes/PEstFew) * 100, '%')
print('No: Will Wait ', (getProbab('Est', '0-10', 'N') * PAnsNo/PEstFew) * 100, '%')
       print('Probability for will wait if Estimated Wait time is 10-30 minutes ')
      print('Yes: Will Wait ', (getProbab('Est', '10-30', 'Y') * PAnsYes/PEstMore) * 100, '%')
print('No: Will Wait ', (getProbab('Est', '10-30', 'N') * PAnsNo/PEstMore) * 100, '%')
print("Probability for Will Wait if the Estimated Wait Time is 30-60 mins: ")
      print("Yes: Will Wait: ", (getProbab('Est','30-60','Y')*PAnsYes/PEstStillMore)*100,"%")
print("No: Will Wait: ", (getProbab('Est','30-60','N')*PAnsNo/PEstStillMore)*100,"%")
       print("Probability for Will Wait if the Estimated Wait Time is >60 mins: ")
      print("Yes: Will Wait: ", (getProbab('Est','>60','Y')*PAnsYes/PEstTooMuch)*100,"%")
print("No: Will Wait: ", (getProbab('Est','>60','N')*PAnsNo/PEstTooMuch)*100,"%")
       print('Probability for will wait if there are Some Patrons ')
      print('Yes: Will Wait ', (getProbab('Pat', 'S', 'Y') * PAnsYes/PPatSome) * 100, '%')
print('No: Will Wait ', (getProbab('Pat', 'S', 'N') * PAnsNo/PPatSome) * 100, '%')
print("Probability for Will Wait if there are None Patrons: ")
       print("Yes: Will Wait: ", (getProbab('Pat','N','Y')*PAnsYes/PPatNone)*100,"%")
       print("No: Will Wait: ", (getProbab('Pat','N','N')*PAnsNo/PPatNone)*100,"%")
       print("Probability for Will Wait if there are Full Patrons: ")
      print("Yes: Will Wait: ", (getProbab('Pat','F','Y')*PAnsYes/PPatFull)*100,"%")
print("No: Will Wait: ", (getProbab('Pat','F','N')*PAnsNo/PPatFull)*100,"%")
      print(No: Will Wait: ', (getProbab('Fat', 'N') *PAnsNo/PFatFull) *100, % )
print('Probability for will wait if the place is Thai ')
print('Yes: Will Wait ', (getProbab('Type', 'T', 'Y') * PAnsYes/PTypeThai) * 100, '%')
print('No: Will Wait ', (getProbab('Type', 'T', 'N') * PAnsNo/PTypeThai) * 100, '%')
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print('Yes: Will Walt', (getPropap('Alt', 'Y', 'I') \* PANSYES/PALTYES) \* 100, '%')
print('No: Will Wait', (getProbab('Alt', 'Y', 'N') \* PANSNO/PALTYES) \* 100, '%') print ('Probability for will wait if there No is an Alternate Restaurant Nearby: ') print('Yes: Will Wait ', (getProbab('Alt', 'N', 'Y') \* PAnsYes/PAltNo) \* 100,
print('No: Will Wait ', (getProbab('Alt', 'N', 'N') \* PAnsNo/PAltNo) \* 100, '% print('Probability for will wait if Estimated Wait time is 0-10 minutes: ') print('Yes: Will Wait ', (getProbab('Est', '0-10', 'Y') \* PAnsYes/PEstFew) \* 100, '%')
print('No: Will Wait ', (getProbab('Est', '0-10', 'N') \* PAnsNo/PEstFew) \* 100, '%') print('Probability for will wait if Estimated Wait time is 10-30 minutes ') print('Flobability for Will Wait ', (getProbab('Est', '10-30', 'Y') \* PAnsYes/PEstMore) \* 100, '%') print('No: Will Wait ', (getProbab('Est', '10-30', 'N') \* PAnsNo/PEstMore) \* 100, '%') print("Probability for Will Wait if the Estimated Wait Time is 30-60 mins: ") print("Yes: Will Wait: ", (getProbab('Est','30-60','Y')\*PAnsYes/PEstStillMore)\*100,"%")
print("No: Will Wait: ", (getProbab('Est','30-60','N')\*PAnsNo/PEstStillMore)\*100,"%") print("Probability for Will Wait if the Estimated Wait Time is >60 mins: ") print("Yes: Will Wait: ",(getProbab('Est','>60','Y')\*PAnsYes/PEstTooMuch)\*100,"%")
print("No: Will Wait: ",(getProbab('Est','>60','N')\*PAnsNo/PEstTooMuch)\*100,"%") print('Probability for will wait if there are Some Patrons ') print('Yes: Will Wait ', (getProbab('Pat', 'S', 'Y') \* PAnsYes/PPatSome) \* 100, '%')
print('No: Will Wait ', (getProbab('Pat', 'S', 'N') \* PAnsNo/PPatSome) \* 100, '%') print ("Probability for Will Wait if there are None Patrons: ") print("Yes: Will Wait: ",(getProbab('Pat','N','Y')\*PAnsYes/PPatNone)\*100,"%")
print("No: Will Wait: ",(getProbab('Pat','N','N')\*PAnsNo/PPatNone)\*100,"%")
print("Probability for Will Wait if there are Full Patrons: ") print("Yes: Will Wait: ",(getProbab('Pat','F','Y')\*PAnsYes/PPatFull)\*100,"%") print("No: Will Wait: ",(getProbab('Pat','F','N')\*PAnsNo/PPatFull)\*100,"%") print(No: Will Wait: ', (getProbab('Fat', ', 'N')\*PAnsNo/FFatFull)\*100, 's')
print('Probability for will wait if the place is Thai ')
print('Yes: Will Wait', (getProbab('Type', 'T', 'Y') \* PAnsYes/PTypeThai) \* 100, '%')
print('No: Will Wait', (getProbab('Type', 'T', 'N') \* PAnsNo/PTypeThai) \* 100, '%') main() Ln: 4 Col: 29

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Neeraj Appari T073 Probability for will wait if there is an Alternate Restaurant Nearby: Yes: Will Wait 50.0 % No: Will Wait 50.0 % Probability for will wait if there No is an Alternate Restaurant Nearby: Yes: Will Wait 50.0 % No: Will Wait 50.0 % Probability for will wait if Estimated Wait time is 0-10 minutes: Yes: Will Wait 71.42857142857143 % No: Will Wait 28.57142857142857 % Probability for will wait if Estimated Wait time is 10-30 minutes Yes: Will Wait 50.0 % No: Will Wait 50.0 % Probability for Will Wait if the Estimated Wait Time is 30-60 mins: Yes: Will Wait: 0.0 % No: Will Wait: 100.0 % Probability for Will Wait if the Estimated Wait Time is >60 mins: Yes: Will Wait: 0.0 % No: Will Wait: 100.0 % Probability for will wait if there are Some Patrons Yes: Will Wait 100.0 % No: Will Wait 0.0 % Probability for Will Wait if there are None Patrons: Yes: Will Wait: 0.0 % No: Will Wait: 100.0 % Probability for Will Wait if there are Full Patrons: Yes: Will Wait: 33.33333333333333 % Probability for will wait if the place is Thai Yes: Will Wait 50.0 % Ln: 5 Col: 0 (21:12 (20-09-2021) ENG 20-09-2021 Type here to search

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